

BookletChartTM

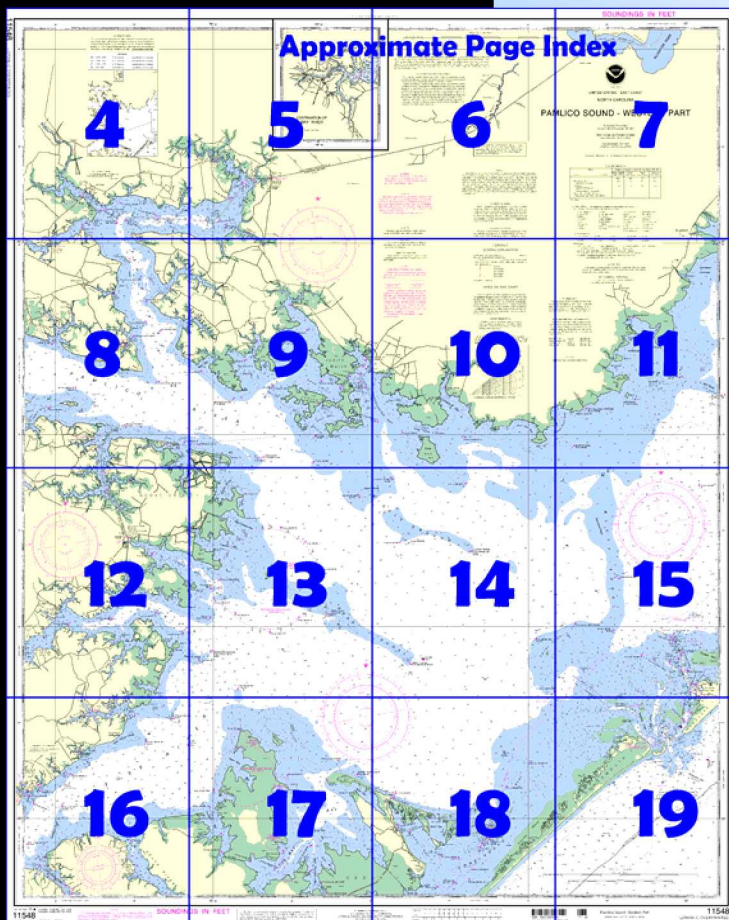
Pamlico Sound - Western Part

(NOAA Chart 11548)



A reduced scale NOAA nautical chart for small boaters. When possible, use the full size NOAA chart for navigation.

- ✓ Complete, reduced scale nautical chart
- ✓ Print at home for free
- ✓ Convenient size
- ✓ Up to date with all Notices to Mariners
- ✓ United States Coast Pilot excerpts
- ✓ Compiled by NOAA, the nation's chartmaker.



Home Edition (not for sale)



What are Nautical Charts?

Nautical charts are a fundamental tool of marine navigation. They show water depths, obstructions, buoys, other aids to navigation, and much more. The information is shown in a way that promotes safe and efficient navigation. Chart carriage is mandatory on the commercial ships that carry America's commerce. They are also used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters.

What is a BookletChart™?

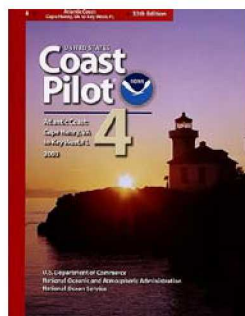
This BookletChart is made to help recreational boaters locate themselves on the water. It has been reduced in scale for convenience, but otherwise contains all the information of the full-scale nautical chart. The bar scales have also been reduced, and are accurate when used to measure distances in this BookletChart. See the Note at the bottom of page 5 for the reduction in scale applied to this chart.

Whenever possible, use the official, full scale NOAA nautical chart for navigation. Nautical chart sales agents are listed on the Internet at <http://www.NauticalCharts.NOAA.gov>.

This BookletChart does NOT fulfill chart carriage requirements for regulated commercial vessels under Titles 33 and 44 of the Code of Federal Regulations.

Notice to Mariners Correction Status

This BookletChart has been updated for chart corrections published in the U.S. Coast Guard Local Notice to Mariners, the National Geospatial Intelligence Agency Weekly Notice to Mariners, and, where applicable, the Canadian Coast Guard Notice to Mariners. Additional chart corrections have been made by NOAA in advance of their publication in a Notice to Mariners. The last Notices to Mariners applied to this chart are listed in the Note at the bottom of page 7. Coast Pilot excerpts are not being corrected.



[Coast Pilot 4, Chapter 4 excerpts]

(167) **Pamlico Sound.** It is 65 miles long and has a maximum width of 25 miles. Oregon, Hatteras, and Ocracoke Inlets pierce the beach, giving access to the ocean, but all are blocked by inside bars with little water over them.

(170) In the exposed parts of the sound, strong winds from any direction raise a short, choppy sea uncomfortable to small craft and even dangerous to open boats; protected anchorage for small craft can be found in the

bays along the northern shore, and along the southern shore in sloughs which lead to sheltered berths in the lee of shoals. Middletown Anchorage and the anchorage in the bight formed by the hook of Royal Shoal can be made either day or night, with caution.

(182) **Middletown Anchorage** has depths of 9 to 13 feet and is sheltered from eastward by Gibbs Shoal, which has 1 to 4 feet over it. The

anchorage is large and easy of access. **Middletown** is reached by light-draft boats by way of **Middletown Creek**. The depth over the bar and to the bridge at Middletown was 3 feet. Vessels pass south of the light on the southeast end of Gibbs Shoal. Gasoline is obtainable in the town.

(185) **Nebraska Canal** had a depth of 1 foot. Local knowledge is advised.

(186) **Bluff Shoal** extends across Pamlico Sound. Depths of Bluff Shoal are 7 to 12 feet. A daybeacon marks the 4-foot shoal 2 miles south-southeastward of Bluff Point.

(188) **Swanquarter Narrows** had a depth of 5 feet. A light marks the western entrance.

(190) A channel leads through Swanquarter Bay to a ferry terminal basin. The channel had a depth of 5 feet. Another channel leads a boat basin at Swanquarter. The depth was 7½ feet in the entrance channel with 6½ feet available in the basin.

(191) **Swanquarter.** Gasoline, diesel fuel, water, marine supplies, and a launching ramp are available.

(192) **The Haulover**, the depth was 13 feet. A light is at each end of the cut. Local vessels use this route.

(193) **Rose Bay.** A marina is at the head. Berths, gasoline, water, marine supplies, and launching ramps are available. A light is at the entrance, and daybeacons and lights mark the best water.

(195) Pamlico River had depths of 12 feet or more to above Core Point.

(196) Above this point a channel leads to Washington, and, in Tar River, to Hardee Creek, thence to Greenville. The depth in the channel was 9 feet to above the second bridge at Washington; thence in Tar River depths of 2½ feet to Hardee Creek, except for shoaling to less than 1 foot at the entrance to Hardee Creek, and thence 2½ feet to Greenville.

(198) **Pungo River.** The channel leads through the lower 15 miles. Above the Intracoastal Waterway, the river narrows. The depth in this section was 5 feet to **Leechville**. The Route 264 bridge at Leechville has a clearance of 7 feet.

(199) **Wright Creek** is entered through a dredged channel that leads to a turning basin at the head of **North Prong**. The channel had a depth of 8 feet; thence a 4 feet in the basin.

(200) Two small marinas are on North Prong. Berths with electricity, diesel fuel, marine supplies, gasoline, and launching ramps are available.

(201) **Slade Creek** had depths of 4 feet.

(202) **Pungo Creek.** A bridge, 2.5 miles above the mouth, has a clearance of 8 feet. The creek had depths of 7 feet to the bridge and thence 5 feet for 2 miles. A light and a daybeacon mark the entrance to the creek.

(205) **Belhaven** has an excellent harbor for small craft. Marine supplies can be obtained in the town, and hotel accommodations are available.

(236) **Bay River.** The natural channel is marked by lights and daybeacons and had depths of 9 feet.

(239) **Vandemere.** Gasoline, diesel fuel, a launching ramp, and supplies are available. The depth was 8 feet to alongside the piers and 4 feet at end of railways.

(242) **Neuse River.** The river has natural depths of 13 feet or more for 25 miles above its mouth.

(243) Above this point, Neuse River has been improved by dredging. The depths were 8½ feet at midchannel to the junction with the channel leading along New Bern's south waterfront, thence 8 feet to the railroad bridge, thence 10 feet to 1.3 miles above the railroad bridge, thence 4 feet. The channel is marked to 4 miles above the city. Strangers should not navigate the river above that point.

(245) **Broad Creek;** the depth in the creek was 5 feet for 2.5 miles, thence 4 feet to Whortonsville. A light marks the entrance to the creek.

(246) **South River.** The entrance is marked by lights. The channel had a depth of 10 feet for 3 miles; thence 6 feet for 4.5 miles.

(247) The **danger zones** of bombing, rocket firing, and strafing areas are in Turnagain Bay and Rattan Bay, in Neuse River, and in Long Bay and West Bay in Pamlico Sound.

Table of Selected Chart Notes

HEIGHTS

Heights in feet above Mean High Water.

Corrected through NM Dec. 24/05
Corrected through LNM Dec. 20/05

40 NOTE B | 52 c S:
Ocracoke Inlet Channel and Teaches Hole Channel are subject to frequent changes. Numerous buoys are not charted because they are frequently shifted in position.

SUPPLEMENTAL INFORMATION

Consult U.S. Coast Pilot 4 for important supplemental information.

CAUTION

Improved channels shown by broken lines are subject to shoaling, particularly at the edges.

NOAA WEATHER RADIO BROADCASTS

The NOAA Weather Radio stations listed below provide continuous weather broadcasts. The reception range is typically 20 to 40 nautical miles from the antenna site, but can be as much as 100 nautical miles for stations at high elevations.

New Bern, NC	KEC-84	162.40 MHz
Cape Hatteras, NC	KIG-77	162.475 MHz
Windsor, NC	WNG-537	162.525 MHz
Mamie, NC	WWH-26	162.425 MHz

AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

RACING BUOYS

Racing buoys within the limits of this chart are not shown hereon. Information may be obtained from the U.S. Coast Guard District Offices as racing and other private buoys are not all listed in the U.S. Coast Guard Light List.


CAUTION

Temporary changes or defects in aids to navigation are not indicated on this chart. See Local Notice to Mariners.

CAUTION

SUBMARINE PIPELINES AND CABLES

Charted submarine pipelines and submarine cables and submarine pipeline and cable areas are shown as:



Pipeline Area Cable Area

Additional uncharted submarine pipelines and submarine cables may exist within the area of this chart. Not all submarine pipelines and submarine cables are required to be buried, and those that were originally buried may have become exposed. Mariners should use extreme caution when operating vessels in depths of water comparable to their draft in areas where pipelines and cables may exist, and when anchoring, dragging, or trawling. Covered wells may be marked by lighted or unlighted buoys.

RADAR REFLECTORS

Radar reflectors have been placed on many floating aids to navigation. Individual radar reflector identification on these aids has been omitted from this chart.

WARNING

The prudent mariner will not rely solely on any single aid to navigation, particularly on floating aids. See U.S. Coast Guard Light List and U.S. Coast Pilot for details.

INTRACOASTAL WATERWAY (Chart 11553)

The project depth is 12 feet from Norfolk, Va. to Morehead City, N.C. The controlling depths are published periodically in the U.S. Coast Guard Local Notice to Mariners.

HORIZONTAL DATUM

The horizontal reference datum of this chart is North American Datum of 1983 (NAD 83), which for charting purposes is considered equivalent to the World Geodetic System of 1984 (WGS 84). Geographic positions referred to the North American Datum of 1927 must be corrected an average of 0.602" northward and 1.277" eastward to agree with this chart.

POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-8802 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

LORAN-C

GENERAL EXPLANATION

LORAN-C FREQUENCY.....100kHz
PULSE REPETITION INTERVAL.....99,600 Microseconds
9960.....
STATION TYPE DESIGNATORS: (Not individual station letter designators).
M.....Master
W.....Secondary
X.....Secondary
Y.....Secondary
Z.....Secondary

EXAMPLE: 9960-W

RATES ON THIS CHART

Loran-C correction tables published by the National Geospatial-Intelligence Agency or others should not be used with this chart. The lines of position shown have been adjusted based on theoretically determined overland signal propagation delays. They have not been verified by comparison with survey data. Every effort has been made to meet the ¼ nautical mile accuracy criteria established by the U.S. Coast Guard. Mariners are cautioned not to rely solely on the lattices in inshore waters.

NOTE A

Navigation regulations are published in Chapter 2, U.S. Coast Pilot 4. Additions or revisions to Chapter 2 are published in the Notice to Mariners. Information concerning the regulations may be obtained at the Office of the Commander, 5th Coast Guard District in Portsmouth, Virginia or at the Office of the District Engineer, Corps of Engineers in Wilmington, North Carolina. Refer to charted regulation section numbers.

Additional information can be obtained at nauticalcharts.noaa.gov.

HURRICANES AND TROPICAL STORMS

Hurricanes, tropical storms and other major storms may cause considerable damage to marine structures, aids to navigation and moored vessels, resulting in submerged debris in unknown locations. Charted soundings, channel depths and shoreline may not reflect actual conditions following these storms. Fixed aids to navigation may have been damaged or destroyed. Buoys may have been moved from their charted positions, damaged, sunk, extinguished or otherwise made inoperative. Mariners should not rely upon the position or operation of an aid to navigation. Wrecks and submerged obstructions may have been displaced from charted locations. Pipelines may have become uncovered or moved. Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.

AUTHORITIES

Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

SOURCE DIAGRAM

The outlined areas represent the limits of the most recent hydrographic survey information that has been evaluated for charting. Surveys have been banded in this diagram by date and type of survey. Channels maintained by the U.S. Army Corps of Engineers are periodically resurveyed and are not shown on this diagram. Refer to Chapter 1, [United States Coast Pilot](#).

CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

NOTE X

Within the 12-nautical mile Territorial Sea, established by Presidential Proclamation, some Federal laws apply. The Three Nautical Mile Line, previously identified as the outer limit of the territorial sea, is retained as it continues to depict the jurisdictional limit of the other laws. The 9-nautical mile Natural Resource Boundary off the Gulf coast of Florida, Texas, and Puerto Rico, and the Three Nautical Mile Line elsewhere remain in most cases the inner limit of Federal fisheries jurisdiction and the outer limit of the jurisdiction of the states. The 24-nautical mile Contiguous Zone and the 200-nautical mile Exclusive Economic Zone were established by Presidential Proclamation. Unless fixed by treaty or the U.S. Supreme Court, these maritime limits are subject to modification.

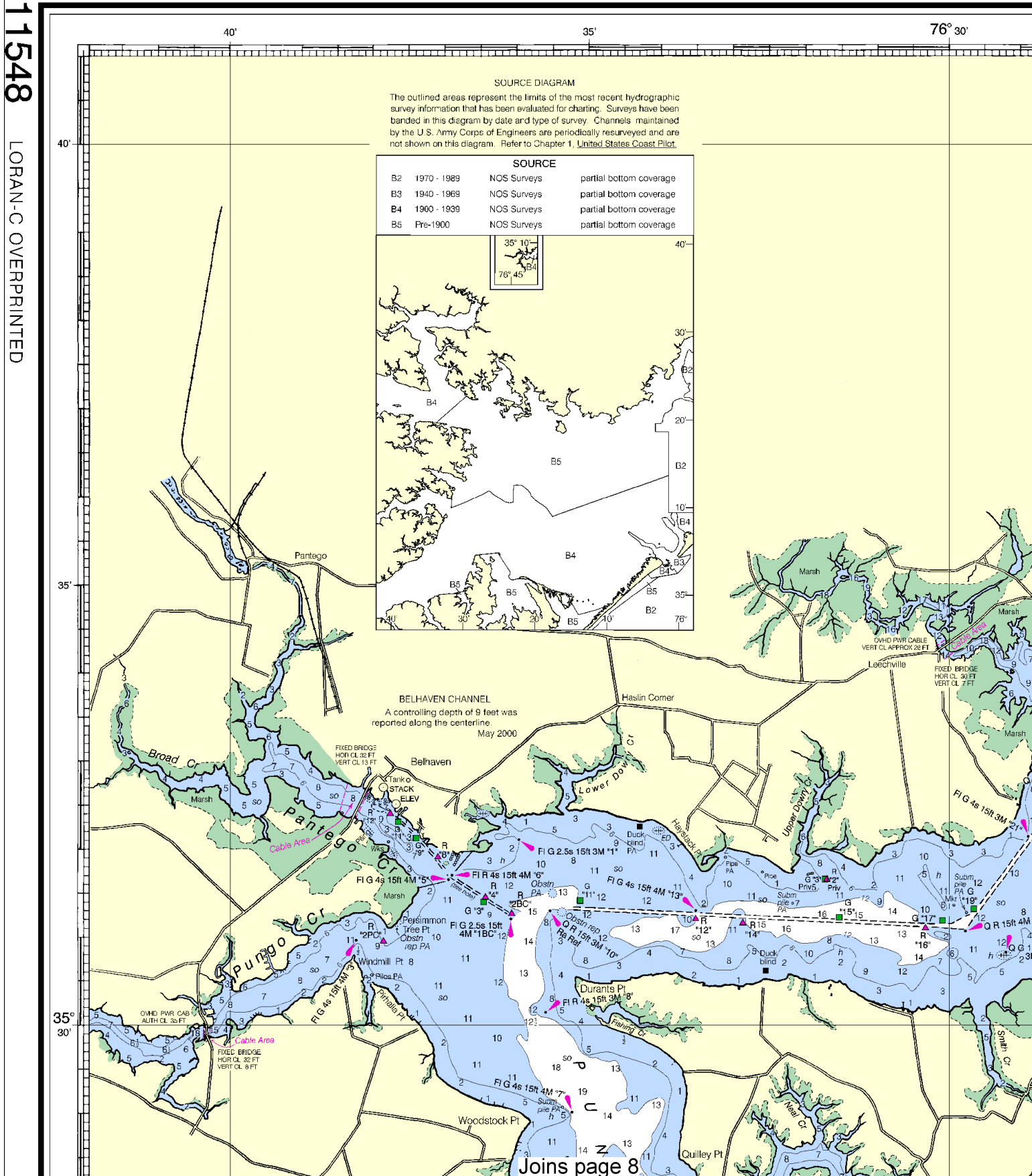
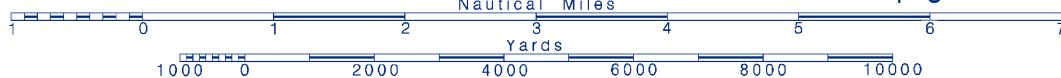
This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CS2), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

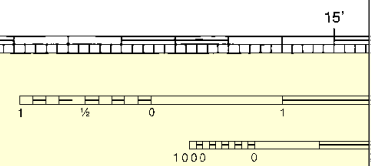
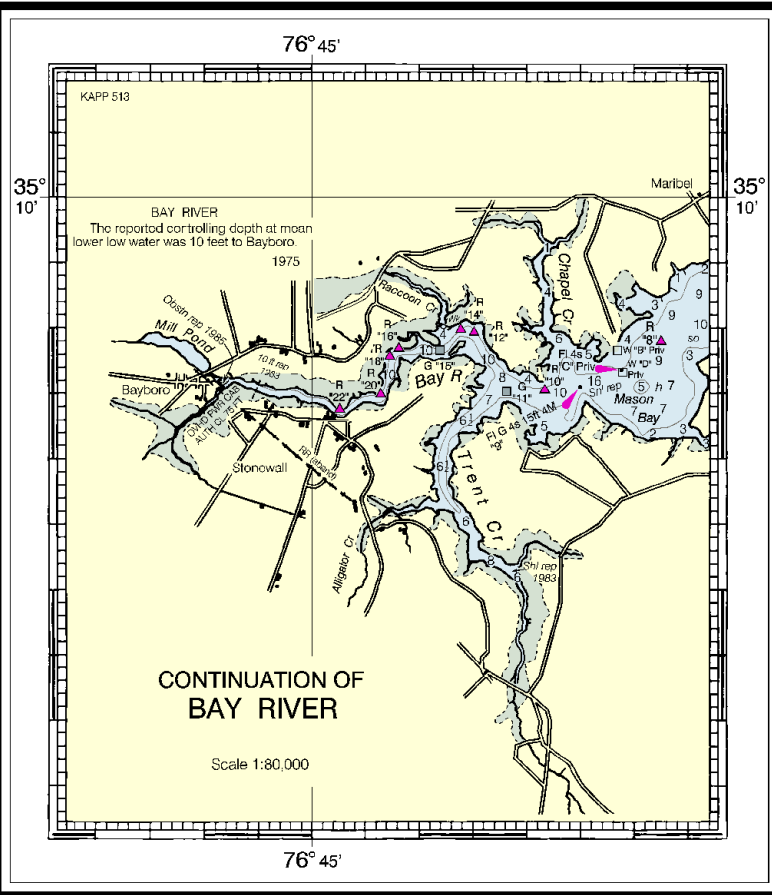


Printed at reduced scale.

SCALE 1:80,000
Nautical Miles

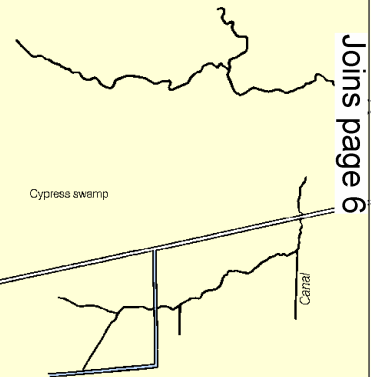
See Note on page 5.





PRINT-ON-DEMAND CHART
NOAA and its partner, OceanGrafix, offer this chart updated with critical corrections. Charts are printed when ordered using Editions are available 5-8 weeks before their release as tradition about Print-on-Demand charts or contact NOAA at 1-800-58 help@NauticalCharts.gov, or OceanGrafix at 1-877-566 help@OceanGrafix.com.

HURRICANES AND TROPICAL STORMS
Hurricanes, tropical storms and other major storms can cause considerable damage to marine structures, aids to navigation and vessels, resulting in submerged debris in unknown locations. Charted soundings, channel depths and shoreline may not reflect conditions following these storms. Fixed aids to navigation may be damaged or destroyed. Buoys may have been moved from their positions, damaged, sunk, extinguished or otherwise made unusable. Mariners should not rely upon the position or operation of aids to navigation. Wrecks and submerged obstructions may have been uncovered. Pipelines may have become uncovered. Mariners are urged to exercise extreme caution and are requested to report aids to navigation discrepancies and hazards to navigation to the nearest United States Coast Guard unit.



Joins page 6

WARNING
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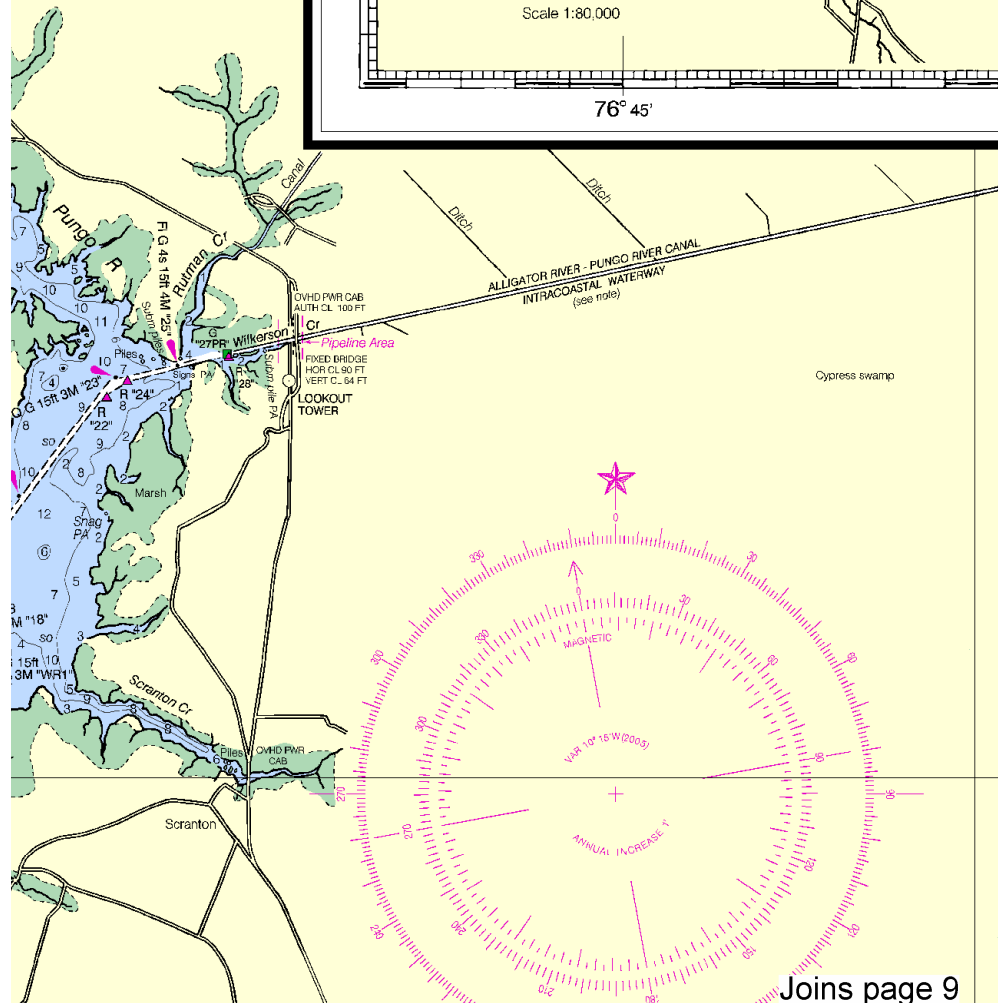
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Refer to charted regulation section numbers.

CAUTION
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CAUTION
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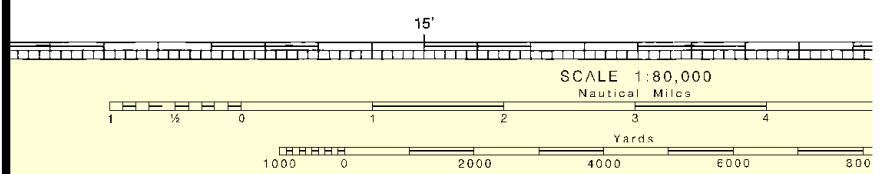
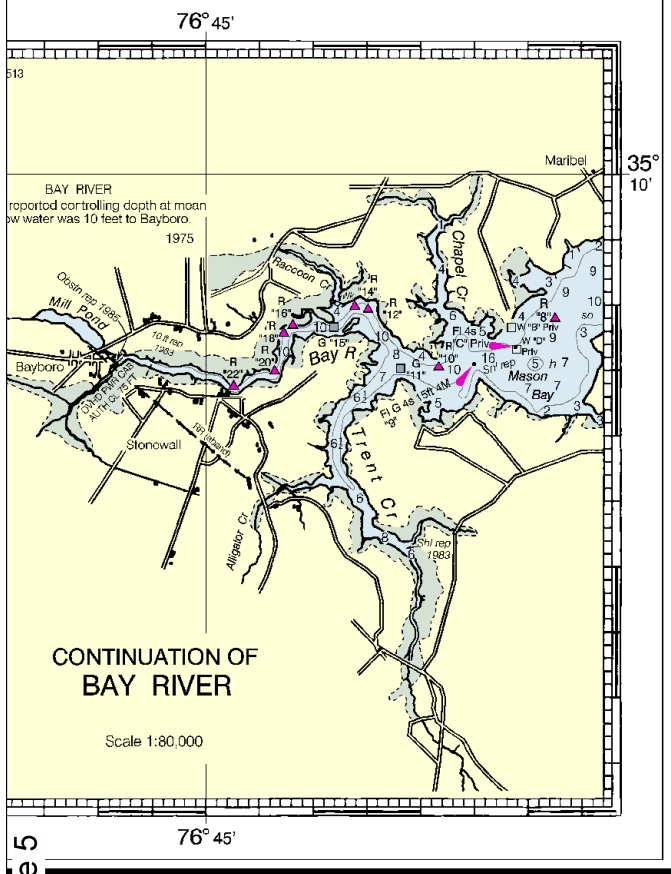
AIDS TO NAVIGATION
Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION
SUBMARINE PIPELINES AND CABLES
Charted submarine pipelines and submarine cables and submarine pipeline and cable areas.



Joins page 9

This BookletChart was reduced to 75% of the original chart scale.
The new scale is 1:106667. Barscales have also been reduced and are accurate when used to measure distances in this BookletChart.



PRINT-ON-DEMAND CHARTS

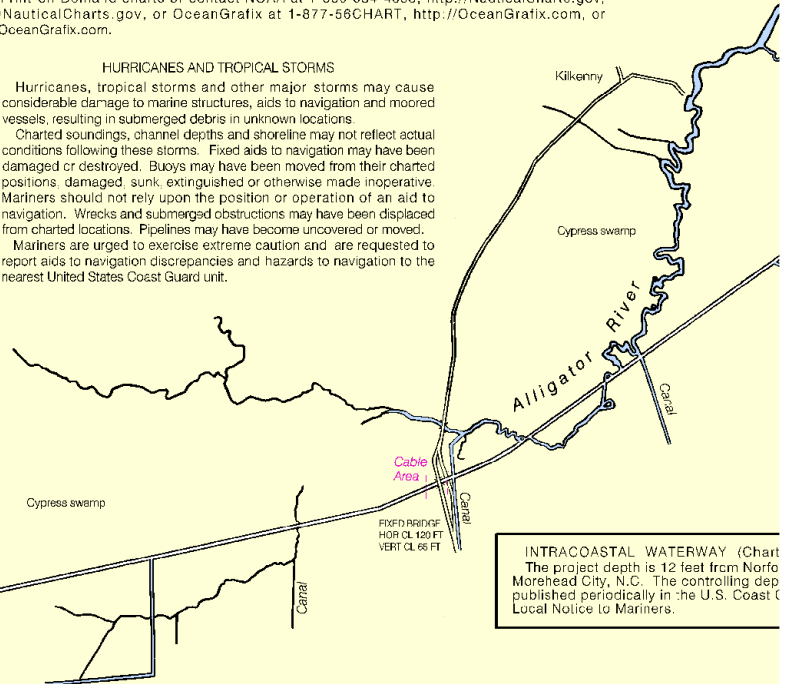
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HURRICANES AND TROPICAL STORMS

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INTRACOASTAL WATERWAY (Chart 11)
The project depth is 12 feet from Norfolk Morehead City, N.C. The controlling depth published periodically in the U.S. Coast Local Notice to Mariners.

NOTE X

Within the 12-nautical mile Territorial Sea, established by some Federal laws apply. The Three Nautical Mile Line, or outer limit of the territorial sea, is retained as it continues to limit of the other laws. The 9-nautical mile Natural Resource Boundary of Florida, Texas, and Puerto Rico, and the Three Nautical Mile most cases the inner limit of Federal fisheries jurisdiction a jurisdiction of the states. The 24-nautical mile Contiguous Zone Exclusive Economic Zone were established by Presidential Proclamation or the U.S. Supreme Court, these may be modified.

HORIZONTAL DATUM

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POLLUTION REPORTS

Report all spills of oil and hazardous substance to the nearest National Response Center via 1-800-424-8802 to the nearest U.S. Coast Guard facility if telecommunication is impossible (33 CFR 153).

LORAN-C

GENERAL EXPLANATION

LORAN-C FREQUENCY.....
PULSE REPETITION INTERVAL.....
9960.....99,600 Mhz
STATION TYPE DESIGNATORS: (Not individual letter designators)
M Master
W Secondary
X Secondary
Y Secondary
Z Secondary

WARNING

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NOTE A

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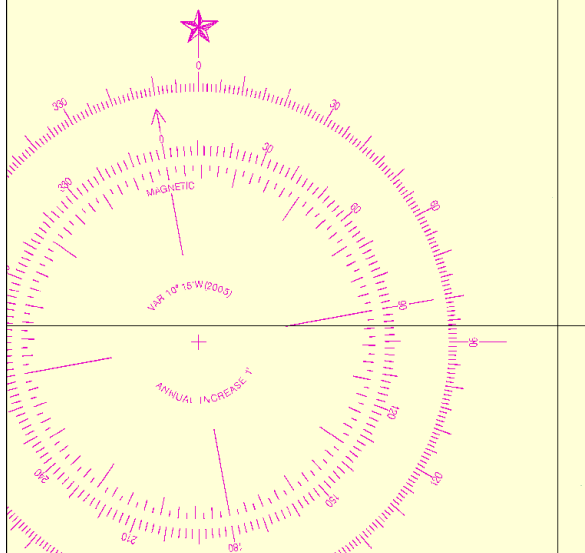
AIDS TO NAVIGATION

Consult U.S. Coast Guard Light List for supplemental information concerning aids to navigation.

CAUTION

SUBMARINE PIPELINES AND CABLES
Charted submarine cables and submarine pipelines.

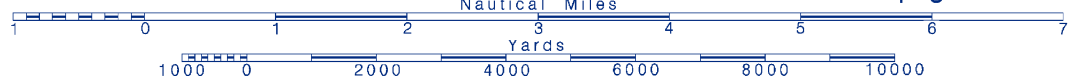
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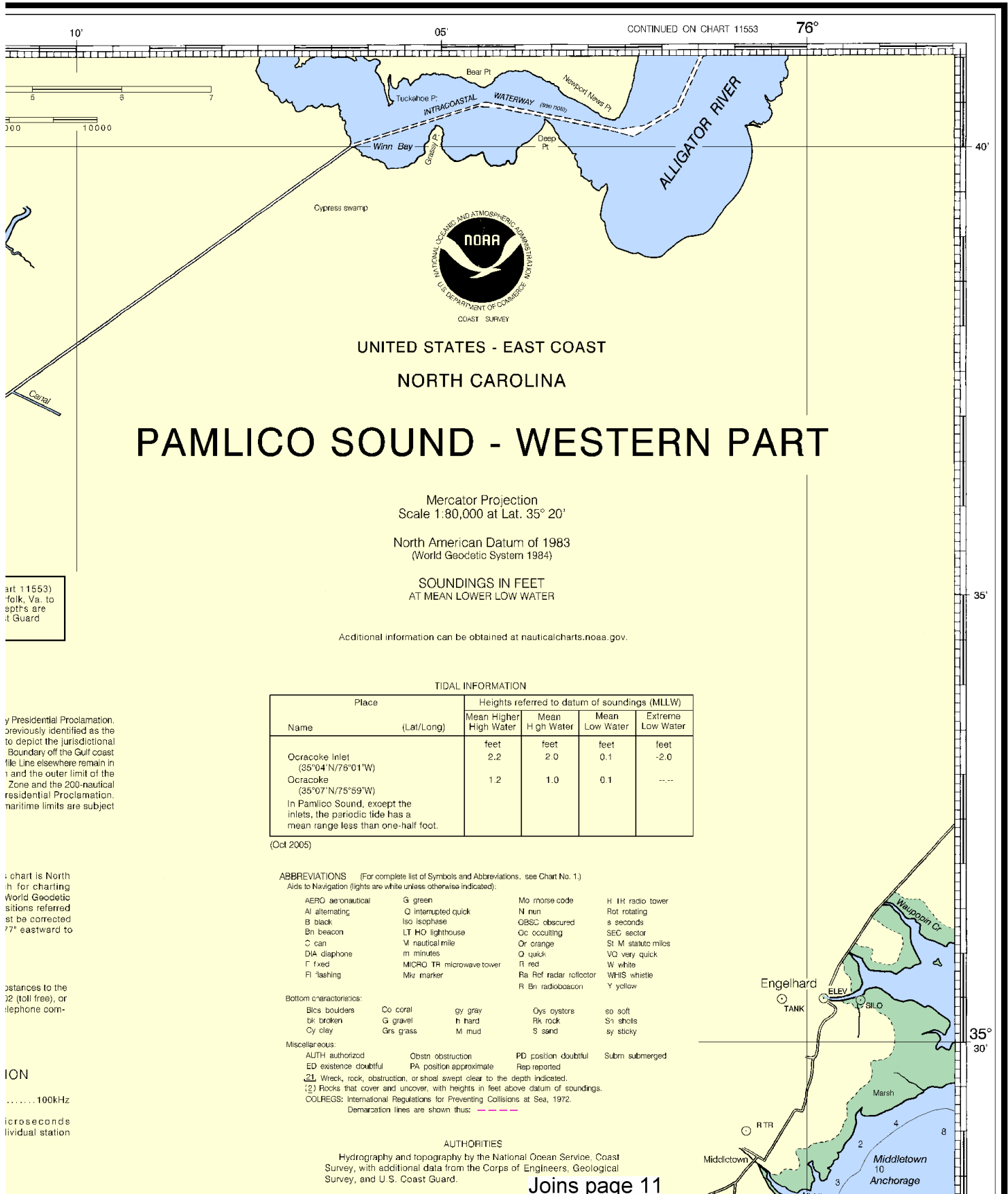
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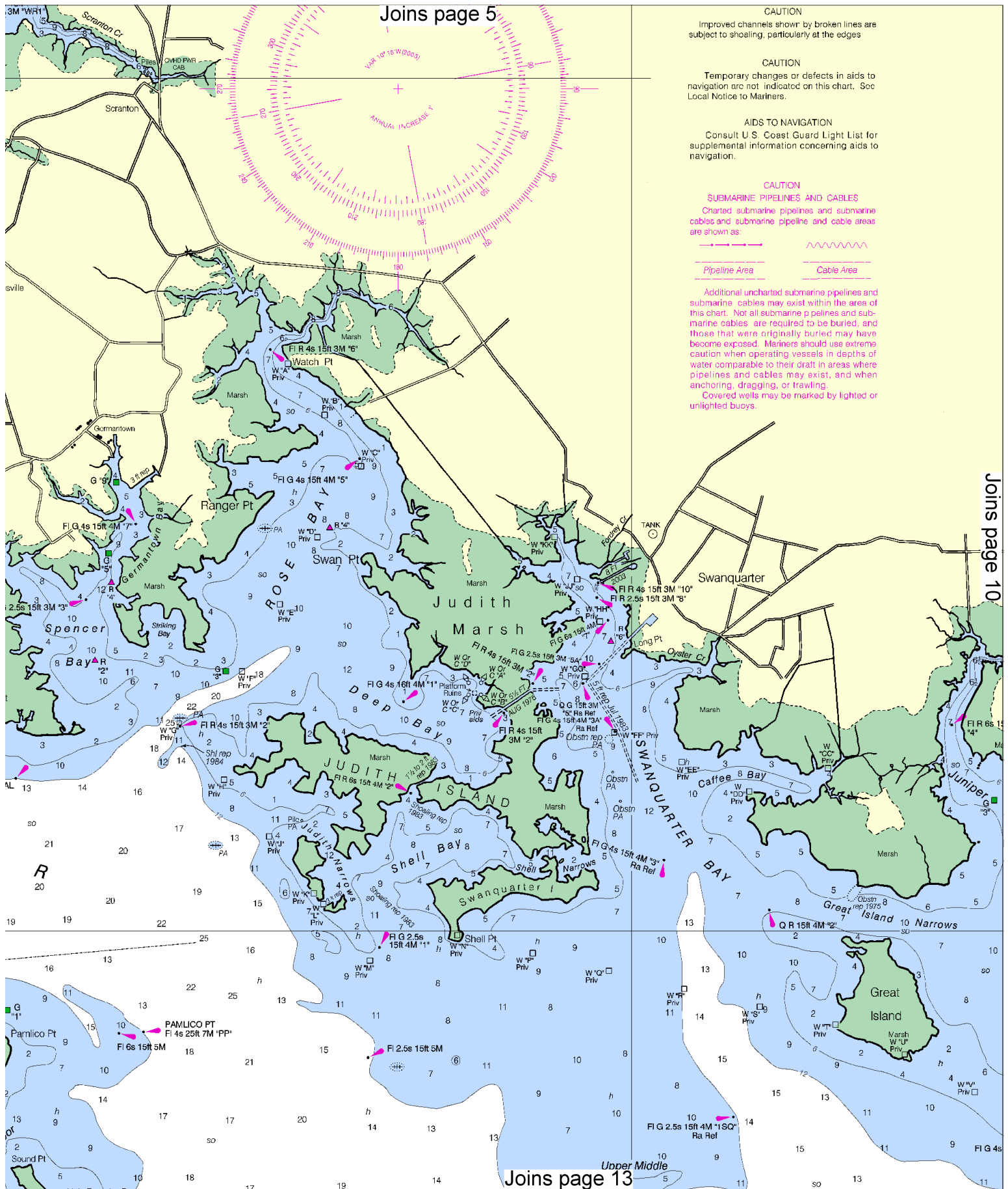
SCALE 1:80,000
Nautical Miles

See Note on page 5.



SOUNDINGS IN FEET





Joins page 5

Joins page 10

Joins page 13

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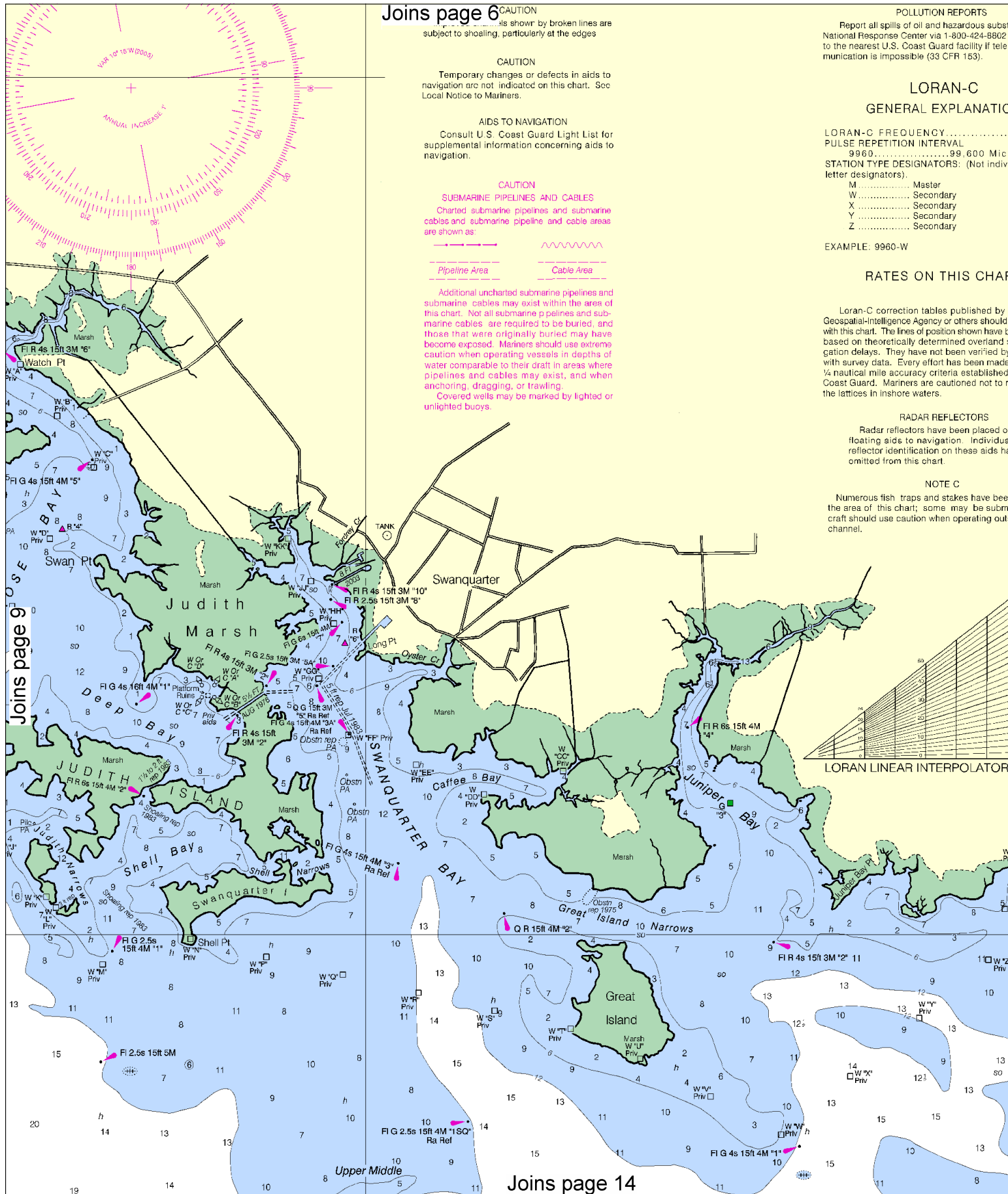
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CAUTION
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Pipeline Area Cable Area

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Covered wells may be marked by lighted or unlighted buoys.



Joins page 6

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POLLUTION REPORTS

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9960.....99,600 Mhz
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X.....Secondary
Y.....Secondary
Z.....Secondary

EXAMPLE: 9960-W

RATES ON THIS CHART

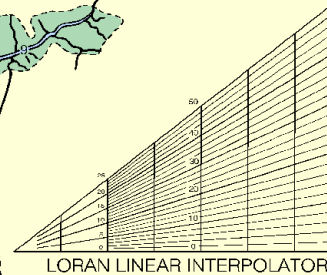
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1/4 nautical mile accuracy criteria established
Coast Guard. Mariners are cautioned not to re-
ly on the lattices in inshore waters.

RADAR REFLECTORS

Radar reflectors have been placed on
floating aids to navigation. Individual
reflector identification on these aids has
been omitted from this chart.

NOTE C

Numerous fish traps and stakes have been
placed in the area of this chart; some may be sub-
merged. Mariners should use caution when operating out-
board motors.



LORAN LINEAR INTERPOLATOR



Printed at reduced scale.

SCALE 1:80,000

See Note on page 5.



distances to the
12 (toll free), or
telephone com-

ION

.....100kHz

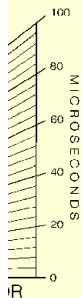
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een reported in
merged. Small
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Joins page 7

Fl flashing
Bottom characteristics:
Bls boulders
bk broken
Cy clay
Miscellaneous:
AUTH authorized
ED existence doubtful
Wreck, rock, obstruction, or shoal swept clear to the depth indicated.
Rocks that cover and uncover, with heights in feet above datum of soundings.
COLREGS: International Regulations for Preventing Collisions at Sea, 1972.
Demarcation lines are shown thus: ---

3a Ref radar reflector
R Bn radiobeacon
WHS whistle
Y yellow

Co coral
G gravel
Grs grass
gy gray
h hard
M mud
Oys oysters
Rk rock
S sand
so soft
Sh shoals
sy sticky

Obstr obstruction
PA position approximate
PD position doubtful
Rep reported
Subm submerged

AUTHORITIES
Hydrography and topography by the National Ocean Service, Coast Survey, with additional data from the Corps of Engineers, Geological Survey, and U.S. Coast Guard.

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Cape Hatteras, NC	KIG-77	162.475 MHz
Windsor, NC	WNG-537	162.625 MHz
Mamie, NC	WWH-26	162.425 MHz

HEIGHTS

Heights in feet above Mean High Water.

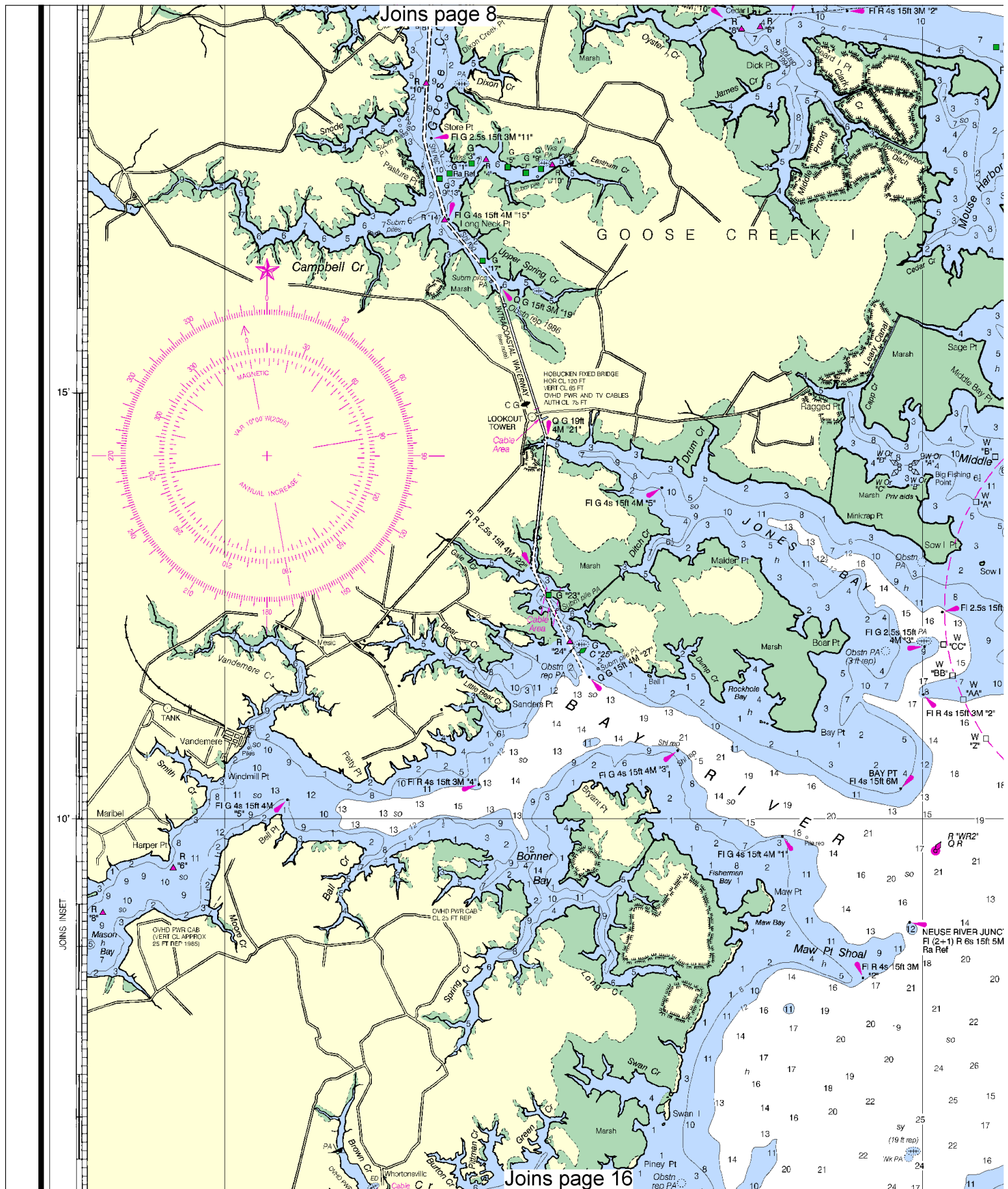
Joins page 15

35°
30'

25'

20'

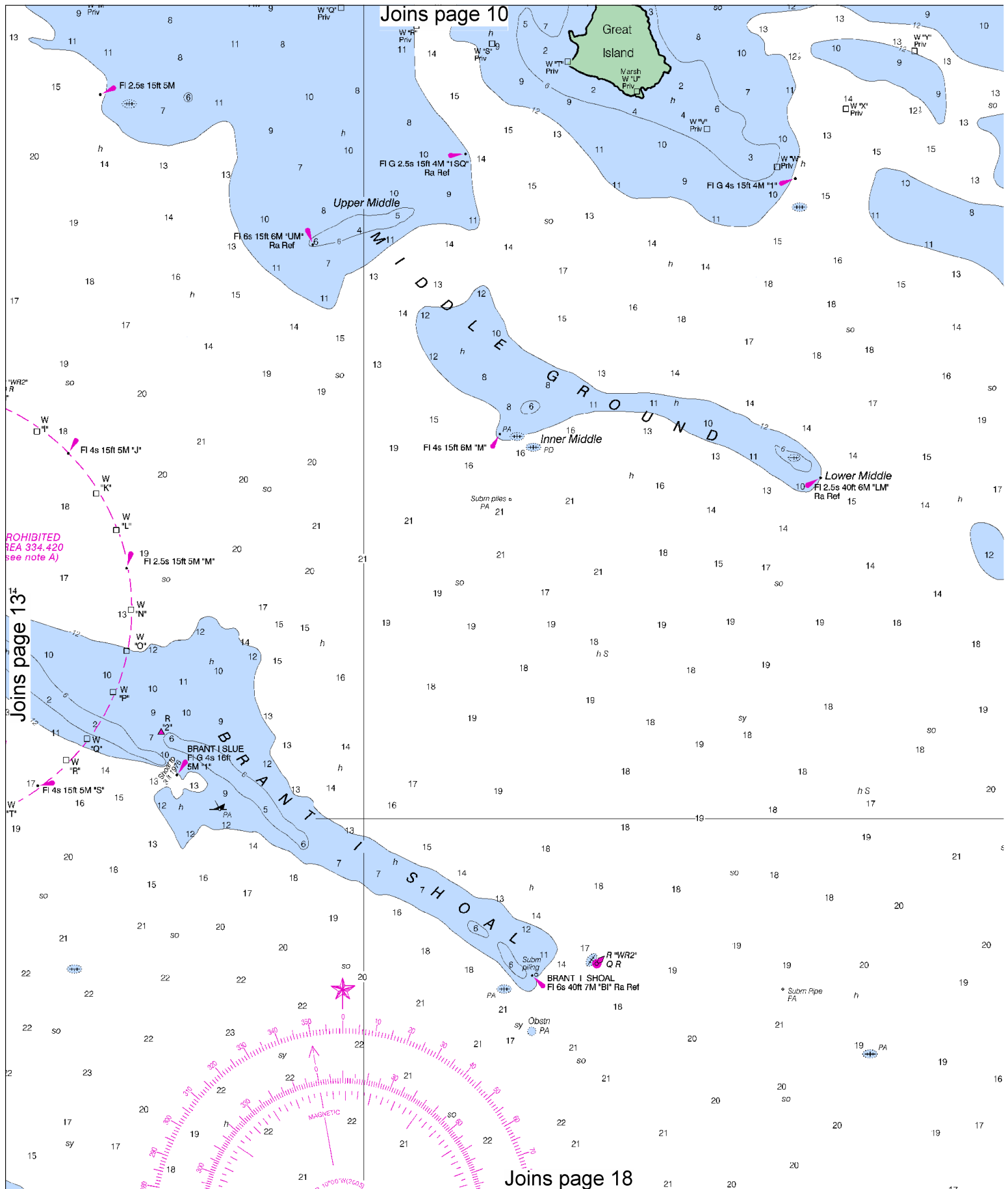
AFT 11555



Joins page 9

Joins page 14¹

Joins page 17



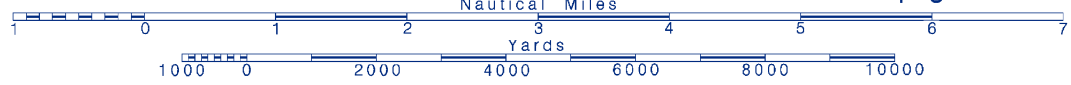
14

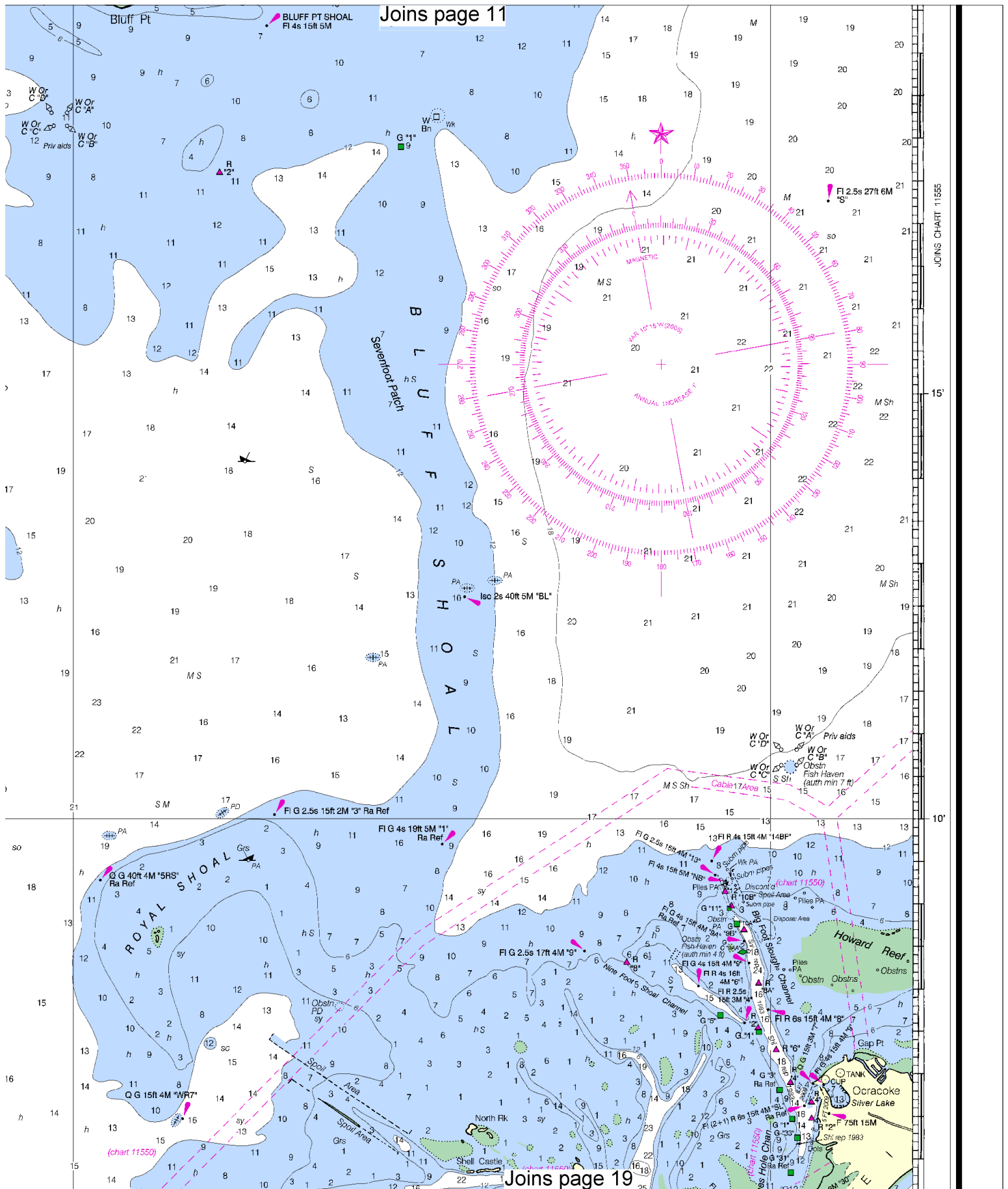


Printed at reduced scale.

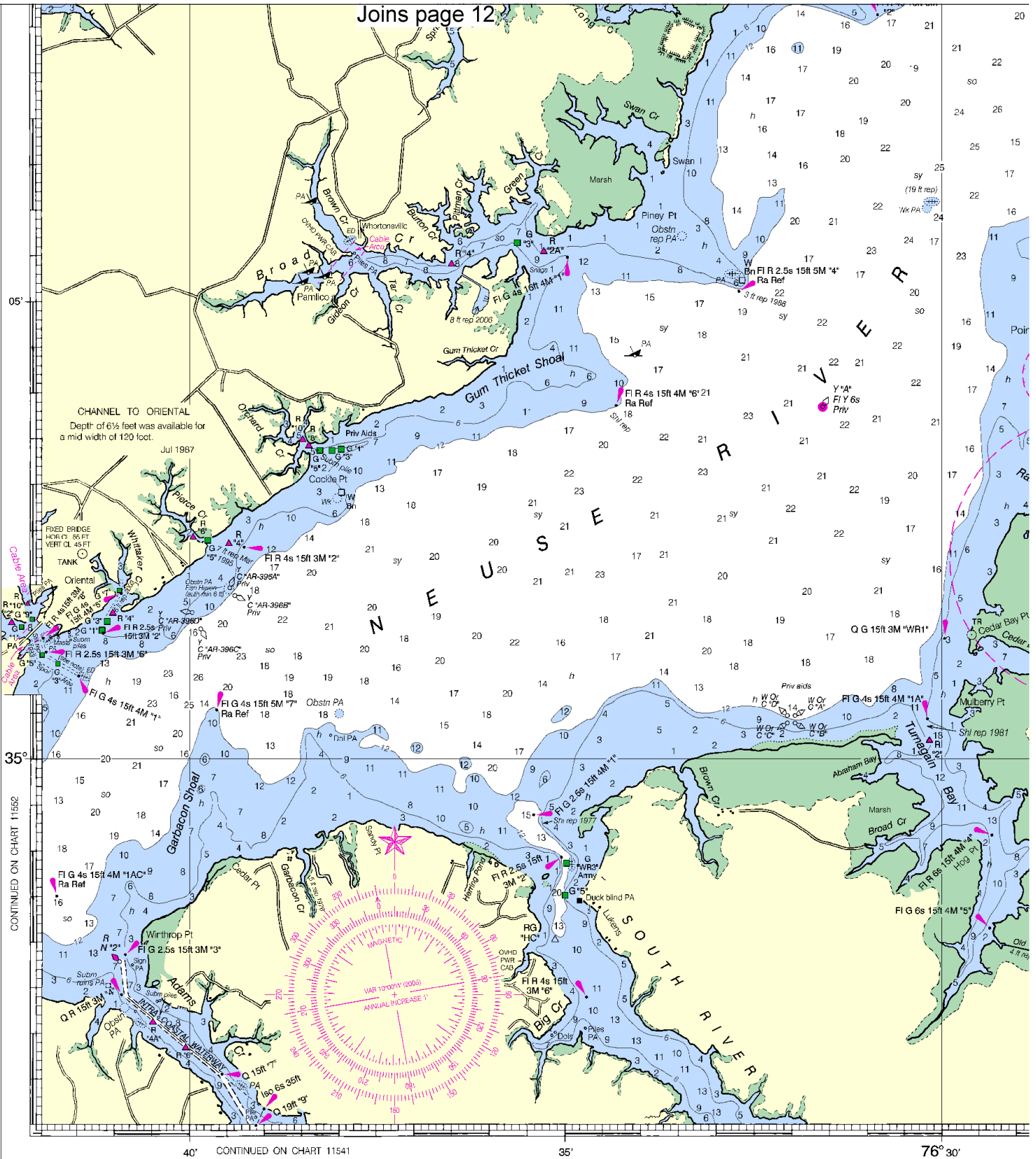
SCALE 1:80,000

See Note on page 5.





Joins page 12



40th Ed., Dec./05 ■ Corrected through NM Dec. 24/05
Corrected through LNM Dec. 20/05

11548

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CAUTION

This chart has been corrected from the Notice to Mariners (NM) published weekly by the National Geospatial-Intelligence Agency and the Local Notice to Mariners (LNM) issued periodically by each U.S. Coast Guard district to the dates shown in the lower left hand corner.

SOUNDINGS IN FEET

16

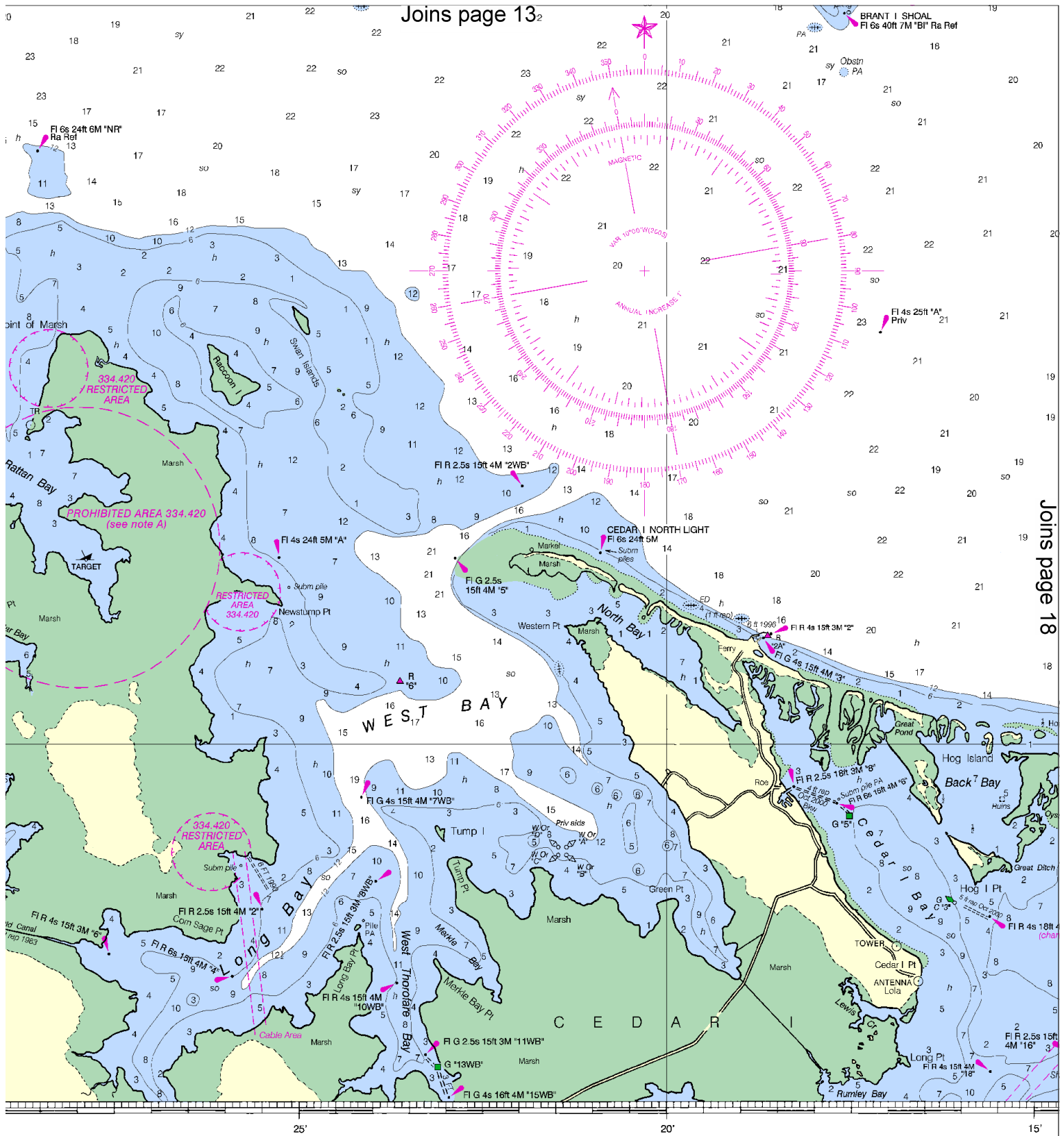


Printed at reduced scale.

SCALE 1:80,000
Nautical Miles

See Note on page 5.

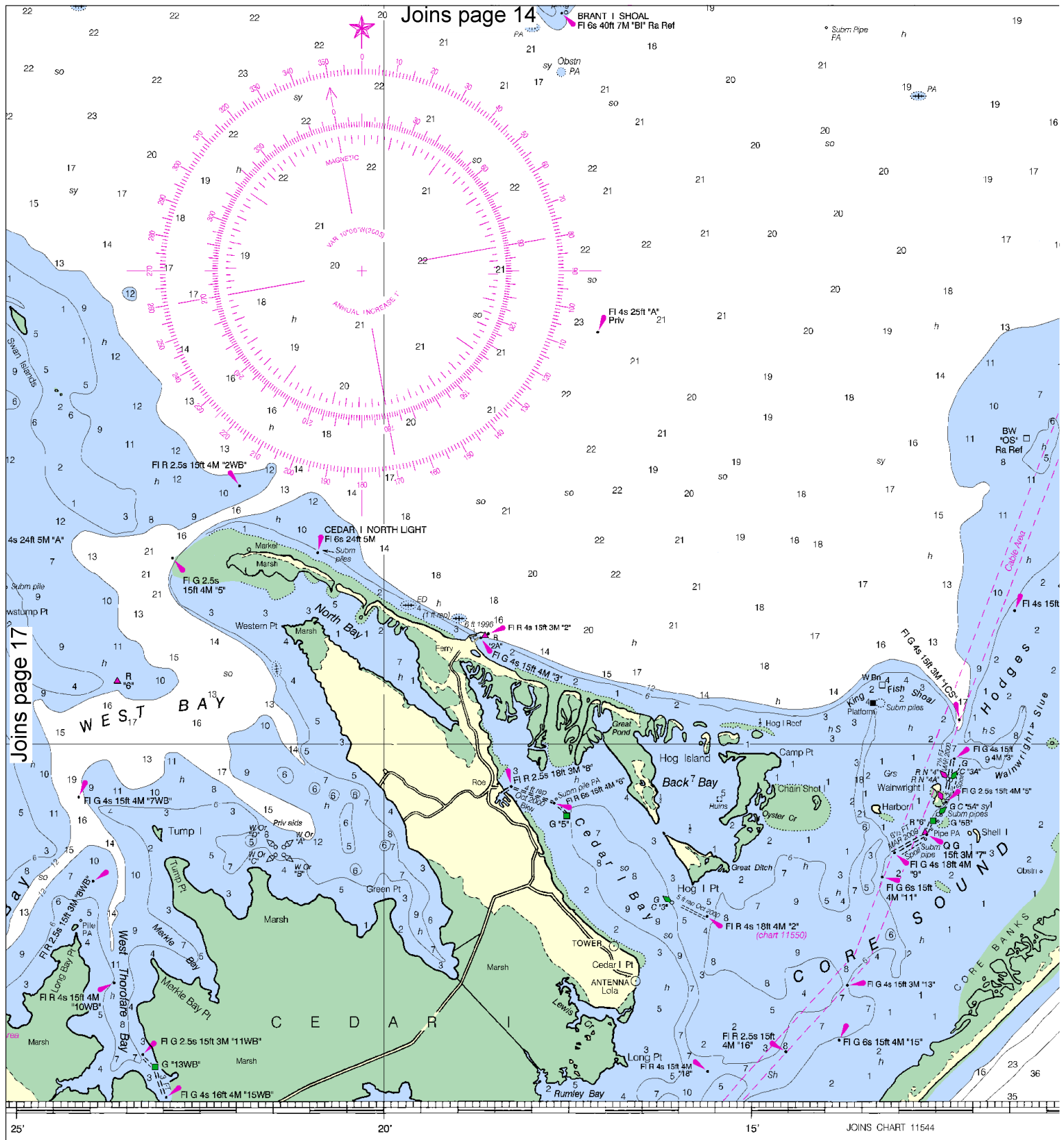




This nautical chart has been designed to promote safe navigation. The National Ocean Service encourages users to submit corrections, additions, or comments for improving this chart to the Chief, Marine Chart Division (N/CSD), National Ocean Service, NOAA, Silver Spring, Maryland 20910-3282.

Published at Washington, D.C.
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7
FEET	6	12	18	24	30	36	42
METERS	1	2	3	4	5	6	7



for navigation. The National
additions, or comments for
(N/C/S2), National Ocean

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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SERVICE
COAST SURVEY

FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102
METERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

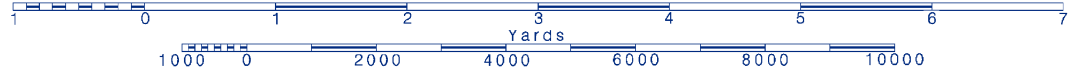
18



Printed at reduced scale.

SCALE 1:80,000
Nautical Miles

See Note on page 5.



This nautical chart, titled "Ocracoke Inlet and Port Smith, North Carolina," is a detailed map of the coastal waters. The chart shows the coastline of North Carolina, including the towns of Port Smith and Ocracoke. Key features include the Ocracoke Inlet Channel, the Teaches Hole Channel, and the Ocracoke Inlet. The chart is marked with numerous depth soundings in fathoms and meters. Navigational aids are indicated by symbols and text, including buoys (e.g., "R 4s 15ft 4M 'B'", "G 1s 15ft 5M 'HR'"), beacons (e.g., "Beacon", "Shell Castle"), and lights (e.g., "L 2s 15ft 5M 'HR'"). The chart also shows various geographical features such as "North Rk", "Ayers Rk", "Portsmouth (abandoned)", "Cable Area", "COLLEGS DEMARCATION LINE", "Mulle Shoal", "Mankie Hammock", "Daniel Swann", "Mast PA", and "Obstrn PA". A scale bar at the bottom indicates a scale of 1:80,000, with distances in nautical miles and yards. The chart is labeled "JOINS page 15" at the top and "JOINS CHART 11555" on the right side. The chart is dated "1994" and "1995".

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EMERGENCY INFORMATION

VHF Marine Radio channels for use on the waterways:

Channel 6 – Inter-ship safety communications.

Channel 9 – Communications between boats and ship-to-coast.

Channel 13 – Navigation purposes at bridges, locks, and harbors.

Channel 16 – Emergency, distress and safety calls to Coast Guard and others, and to initiate calls to other vessels. Contact the other vessel, agree to another channel, and then switch.

Channel 22A – Calls between the Coast Guard and the public. Severe weather warnings, hazards to navigation and safety warnings are broadcast here.

Channels 68, 69, 71, 72 & 78A – Recreational boat channels.

Distress Call Procedures

1. Make sure radio is on.
2. Select Channel 16.
3. Press/Hold the transmit button.
4. Clearly say: "MAYDAY, MAYDAY, MAYDAY."
5. Also give: Vessel Name and/or Description; Position and/or Location; Nature of Emergency; Number of People on Board.
6. Release transmit button.
7. Wait for 10 seconds – If no response Repeat MAYDAY Call.

HAVE ALL PERSONS PUT ON LIFE JACKETS !!

Mobile Phones – Call 911 for water rescue.

Coast Guard Ocracoke – 919-928-3711/4731

Coast Guard Hobucken – 919-745-3132

Coast Guard Fort Macon – 252-247-4583

Coast Guard Hatteras Inlet – 919-986-2175/76

NC Wildlife Resources Commission – 800-662-7137

NOAA Weather Radio – 162.400 MHz, 162.425 MHz, 162.450 MHz, 162.475 MHz, 162.500 MHz, 162.525 MHz, 162.550 MHz.

Getting and Giving Help – Signal other boaters using visual distress signals (flares, orange flag, lights, arm signals); whistles; horns; and on your VHF radio. You are required by law to help boaters in trouble. Respond to distress signals, but do not endanger yourself.



NOAA CHARTING PUBLICATIONS

Official NOAA Nautical Charts – NOAA surveys and charts the national and territorial waters of the U.S., including the Great Lakes. We produce over 1,000 traditional nautical charts covering 3.4 million square nautical miles. Carriage of official NOAA charts is mandatory on the commercial ships that carry our commerce. They are used on every Navy and Coast Guard ship, fishing and passenger vessels, and are widely carried by recreational boaters. NOAA charts are available from official chart agents listed at: www.NauticalCharts.NOAA.gov.

Official Print-on-Demand Nautical Charts – These full-scale NOAA charts are updated weekly by NOAA for all Notice to Mariner corrections. They have additional information added in the margin to supplement the chart. Print-on-Demand charts meet all federal chart carriage regulations for charts and updating. Produced under a public/private partnership between NOAA and OceanGrafix, LLC, suppliers of these premium charts are listed at www.OceanGrafix.com.

Official Electronic Navigational Charts (NOAA ENC[®]) – ENCs are digital files of each chart's features and their attributes for use in computer-based navigation systems. ENCs comply with standards of the International Hydrographic Organization. ENCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official Raster Navigational Charts (NOAA RNC[™]) – RNCs are geo-referenced digital pictures of NOAA's charts that are suitable for use in computer-based navigation systems. RNCs comply with standards of the International Hydrographic Organization. RNCs and their updates are available for free from NOAA at www.NauticalCharts.NOAA.gov.

Official BookletCharts[™] – BookletCharts[™] are reduced scale NOAA charts organized in page-sized pieces. The "Home Edition" can be downloaded from NOAA for free and printed. The Internet address is www.NauticalCharts.gov/bookletcharts.

Official PocketCharts[™] – PocketCharts[™] are for beginning recreational boaters to use for planning and locating, but not for real navigation. Measuring a convenient 13" by 19", they have a 1/3 scale chart on one side, and safety, boating, and educational information on the reverse. They can be purchased at retail outlets and on the Internet.

Official U.S. Coast Pilot[®] – The Coast Pilots are 9 text volumes containing information important to navigators such as channel descriptions, port facilities, anchorages, bridge and cable clearances, currents, prominent features, weather, dangers, and Federal Regulations. They supplement the charts and are available from NOAA chart agents or may be downloaded for free at www.NauticalCharts.NOAA.gov.

Official On-Line Chart Viewer – All NOAA nautical charts are viewable here on-line using any Internet browser. Each chart is up-to-date with the most recent Notices to Mariners. Use these on-line charts as a ready reference or planning tool. The Internet address is www.NauticalCharts.gov/viewer.

Official Nautical Chart Catalogs – Large format, regional catalogs are available for free from official chart agents. Page size, state catalogs are posted on the Internet and can be printed at home for free. Go to <http://NauticalCharts.NOAA.gov/mcd/ccatalogs.htm>.

Internet Sites: www.NauticalCharts.NOAA.gov, www.NOAA.gov, www.TidesandCurrents.NOAA.gov, www.NOS.NOAA.gov.